

Server Management

The Server Management, previously called Server Monitor, can now be started from the Entire Screen Builder folder of the Windows Start menu.

The configuration information is now defined when you invoke the snap-in for the first time. Therefore, **Connect** command and the corresponding toolbar button are no longer available in the Performance pane. The corresponding edit controls have been removed from the Entire Screen Builder Server Monitor Properties dialog box.

See *Starting the Server Management* in the *Server Management* documentation for further information.

Server Monitor

The Performance pane has been renamed to Server Monitor.

It is now possible to add additional counters (for example, for file transfers, Java scripts or for the statistics information that was previously available in the System Management Hub). See *Adding Counters* in the *Server Management* documentation.

Running Connections

It is now possible to monitor running connections. See *Monitoring Running Connections* in the *Server Management* documentation.

Host Sessions

It is now possible to manage host sessions that have been defined using the System Management Hub. It is also possible to modify the properties of existing host sessions or to add new host sessions. See *Host Sessions* in the *Server Management* documentation.

Key Schemes

It is now possible to manage key schemes that have been defined using the System Management Hub. It is also possible to modify existing key schemes or to add new key schemes. See *Key Schemes* in the *Server Management* documentation.

Color Schemes

It is now possible to manage color schemes that have been defined using the System Management Hub. It is also possible to modify existing color schemes or to add new color schemes. See *Color Schemes* in the *Server Management* documentation.

SDK

BDD File

When duplicate IDs are detected when building the BDD file, numbers for the tab order are now shown in the output panel. The controls that caused the error can thus be easily identified in the resource editor. See *Building the BDD File* in the documentation *Defining the Rules Using the SDK*.

Extended Rules Detection (Single Screen)

It is now possible to define subregions for a region.

When you get the content of the region as the dialog name, the server will use the content of the first region that is defined in the BDD file as the dialog name. When subregions have been defined, the content of the region is only used as the dialog name if all defined subregions are also found. The subregions itself are not used as dialog names.

The extended rules detection is now invoked with the command **Detection > Single Screen**.

See *Detecting the Screen on which the Extended Rules are to be Applied* in the documentation *Defining the Rules Using the SDK*.

Extended Rules Detection (Multi Screen)

The detection rules for the new multi screen feature are defined with the command **Detection > Multi Screen**.

It is now possible, for example, to collect data from several character screens and show this data in a single dialog, or to create a single dialog which contains data for several character screens. For detailed information, see *Using the Multi Screen Feature* in the documentation *Defining the Rules Using the SDK*.

If you want to use the multi screen feature, you have to enable the new option **Dialog for multi screen** in the dialog properties. See *Defining the Dialog Properties* in the documentation *Defining the Rules Using the SDK*.

When the multi screen feature has been enabled in the dialog properties, an additional page is available in the control properties. See *Screen Number* in the documentation *Defining the Rules Using the SDK*.

A new property, **Auto disconnect**, is available on the Server page of the Client Control Properties dialog box. When selected, the server disconnects the session automatically when the multi screen feature fails. See *Defining the Client Control Properties* in the documentation *Defining the Rules Using the SDK*.

Font

A Font dialog box is now available for extended rules. With this dialog box, it is now possible to define another character set. See *Defining the Font* in the documentation *Defining the Rules Using the SDK*.

Language code

A new property, **Language code**, is available on the Aspect page of the Client Control Properties dialog box. This property is used to support different resource language libraries. If you require your own resource language libraries, contact your Software AG representative. See *Defining the Client Control Properties* in the documentation *Defining the Rules Using the SDK*.

XML SDK

The XML SDK, which is used for the XML Version, is a preview version. For documentation, see *ConfigureCustomizeXMLVersion.doc* in the `windows\Server Extensions\SDK_Preview` folder on the Entire Screen Builder CD.

Basic Rules

3270 Keys Toolbar

A new basic rule is available. It is now possible to display a toolbar with buttons for the 3270 special function keys (Clear, Att, Reset, SysReq, PA1, PA2 or PA3). See *3270 Keys Toolbar* in the *Basic Rules Reference*.

BS2000 Keys Toolbar

It is now possible to define the following individually for each key: whether a button is always to be shown in the toolbar, or whether it is to be shown only if the corresponding function key is detected. See *BS2000 Keys Toolbar* in the *Basic Rules Reference*.

Buttons for Main Dialog

The button properties are now defined individually for each button. A constant image, a dynamic image or constant text can now be defined for each button.

It is now possible to adjust the image size to a button, to align the text on a button, or to apply a flat effect to a button.

It is now possible to define the appearance of the mouse pointer when it is positioned on a push button.

See *Buttons for Main Dialog* in the *Basic Rules Reference*.

Buttons for Child Dialogs

The above changes for buttons in the main dialog have also been applied for the buttons in child dialogs. See *Buttons for Child Dialogs* in the *Basic Rules Reference*.

Font and Colors

It is now possible to define the font and colors separately for the main and child windows. See *Font and Colors for Main Dialogs* and *Font and Colors for Child Dialogs* in the *Basic Rules Reference*.

Function Keys

It is now possible to define more than one function keys detection rule for the same scope. Each key to be detected is now defined individually.

The ENTER key and the 3270 and BS2000 keys are now detected with this rule.

See *Function Keys* in the *Basic Rules Reference*.

Function Keys Toolbar

It is now possible to define the following individually for each key: whether a button is always to be shown in the toolbar, or whether it is to be shown only if the corresponding function key is detected. See *Function Keys Toolbar* in the *Basic Rules Reference*.

Map Detection

It is now possible to define subregions for a region. See *Map Detection* in the *Basic Rules Reference*.

Extended Rules

Check Boxes

It is now possible to fill the label (caption) of a check box dynamically, using the text from a defined region. See *Check Boxes* in the *Extended Rules Reference*.

List Box Controls

It is now possible to compose the name of an external file name by using the text from a defined region. See *List Box Controls* in the *Extended Rules Reference*.

List View Controls

When you define the region for which the control is to be created, it is now possible to define the default text for the selected row that is to be sent to the server, in addition to the defined key or function. This enables the user to select a row of the list view control, continue to work in the dialog and then press, for example, PF5 to send data to the host, including the data for the selected row.

When you define a menu item, it is now possible to define that the input field is to be filled with spaces.

When you define a header for a column, it is now possible to define a region in the screen which contains the string that is to be used as the column header.

See *List View Controls* in the *Extended Rules Reference*.

Push Buttons

It is now possible to specify an event that is to be fired when the user chooses the control. See *Defining the Control Properties* (the description of the Action page) in the documentation *Defining the Rules Using the SDK*.

Radio Buttons

It is now possible to fill the label (caption) of a radio button dynamically, using the text from a defined region. See *Radio Buttons* in the *Extended Rules Reference*.

Static Text

It is now possible to specify an event that is to be fired when the user chooses the control. See *Defining the Control Properties* (the description of the Action page) in the documentation *Defining the Rules Using the SDK*.

GUI Viewers

3270 Keys Toolbar

A new toolbar is available for 3270 keys. See *3270 Keys Toolbar* in the *GUI Viewers* documentation.

Key Schemes

You can now define your own key schemes. See *Modifying the Key Scheme for a Host Session* in the *Individual Session Settings* documentation.

Print Direct

It is now possible to print a GUI screen or character screen directly on the default printer defined in Windows. The Print dialog box does not appear. See *Printing the Contents of a Host Screen* in the *GUI Viewers* documentation.

Terminal Viewer

Fonts

A revised dialog box is now available for defining another font. See *Modifying the Font for a Host Session* in the *Individual Session Settings* documentation.

Color Schemes

It is now possible to define VT color schemes. A VT color scheme applies to sessions of type Telnet VT and Natural UNIX. See *VT Color Scheme* in the *Individual Session Settings* documentation.

Key Schemes

You can now define your own key schemes. See *Modifying the Key Scheme for a Host Session* in the *Individual Session Settings* documentation.

P-Key Schemes

It is now possible to add, modify, duplicate or delete P-key schemes for sessions of type BS2000. See *Modifying the P-Key Scheme for a BS2000 Host Session* in the *Individual Session Settings* documentation.

Block Mode Paste

It is now possible to enable block mode paste. This feature is helpful when working with editors. When you select a block of text and paste it in the middle of a line, the block remains intact. The lines after the first line begin in the same column as the first line. When block mode paste is not enabled, the lines after the first line would start at the beginning of a line. See *Transferring Data Using the Clipboard* in the *Terminal Viewer* documentation.

Data Transfer

Field Formats

The field format Ay is now available. This is an alphanumeric format where y is a digit greater than 253. Can only be used with file formats ASCII and COBOL. The maximum value which can be specified depends on your Natural version. See the Natural documentation for further information.

The field format By is now available. This is a binary format where y is a digit greater than 126. Can only be used with file formats ASCII, binary and COBOL. The maximum value which can be specified depends on your Natural version. See the Natural documentation for further information.

See *Supported Field Formats* in the *Data Transfer* documentation.

Binary Variables

With Natural Version 4.1 for Mainframes and Natural Version 6.1 for UNIX, you can use binary variables greater than 126 for upload and download. The maximum value which can be specified depends on your Natural version. See the Natural documentation for further information. See *Downloading Binary Data* and *Uploading Binary Data* in the *Data Transfer* documentation.

Script Files

The following new script file methods are available:

BrowseClientFile

Display an Open File dialog box on the client. See the description for `BrowseClientFile` in the *Script Files* documentation.

GetClientArgument

Return values defined by a client-side user exit (API). See the description for `GetClientArgument` in the *Script Files* documentation.

GetDisplay

Return the current state of the display flag. See the description for `GetDisplay` in the *Script Files* documentation.

SetClientArgument

Define arguments to be processed by a client-side user exit (API). See the description for `SetClientArgument` in the *Script Files* documentation.

SetDisplay

Stop the screen being updated in the client. See the description for `SetDisplay` in the *Script Files* documentation.

SetUnixLogonCredentials

Display a dialog box in the Terminal Viewer which prompts for the user name and password before opening a session on a Natural UNIX or OpenVMS host. See the description for `SetUnixLogonCredentials` in the *Script Files* documentation.

The following script file methods have been enhanced:

SetSessionParameter

This method now supports Telnet VT. It no longer supports NWSAA. See the description for `SetSessionParameter` in the *Script Files* documentation.

SetXMLEncoding

This method can now also be used for overwriting the settings made in the session definition. See the description for `SetXMLEncoding` in the *Script Files* documentation.

User Exits

The following new Web Viewer client functions are available:

PrintDirectCurrentScreen

Print a GUI screen or character screen directly on the default printer defined in Windows. The Print dialog box does not appear. See `PrintDirectCurrentScreen` in the *User Exits* documentation.

Show3270Toolbar

Show or hide the 3270 toolbar. See the description for `Show3270Toolbar` in the *User Exits* documentation.

The following new common functions, which apply to the Web Viewer and the Terminal Viewer, are available:

GetScriptArgument

Return values that are defined in the list of script arguments. See the description for `GetScriptArgument` in the *User Exits* documentation.

ResetScriptArguments

Allow the removal of all script arguments in one call. See the description for `ResetScriptArguments` in the *User Exits* documentation.

SetScriptArgument

Allow script arguments to be defined that can be passed to and from the server JavaScript engine. See the description for `SetScriptArgument` in the *User Exits* documentation.

The following new event is available with the Web Viewer client functions:

void UserDefinedEvent(szText)

This event is fired when the user chooses a push button or static text control for which a user-defined event has been defined in the SDK. See *Events* in the *Web Viewer Client Functions (API)* section of the *User Exits* documentation.

The following new client control property is available:

AutoDisconnect

Disconnect the session automatically when a multi screen rule fails. See the description for `AutoDisconnect` in the *User Exits* documentation.

The following Natural UNIX user exit has been enhanced:

nsw_CheckUsernameAndPassword

A new parameter, `pUserMessage`, is now available. This parameter can be used to display a user message in the viewer (instead of the standard message).

Prerequisites: Natural UNIX Version 5.1.1.14 or above, or Natural UNIX 6.1.1 or above.

See the description for `nsw_CheckUsernameAndPassword` in the *User Exits* documentation.

Migrate the old user exit as follows:

1. Back up the source code of the old user exit:

```
cp name-of-your-user-exit.c name-of-your-user-exit.c.old
```

2. Edit *name-of-your-user-exit.c*.

3. Add `char *pUserMessage` to the prototype so that it looks as follows:

```
int nsw_CheckUsernameAndPassword(const char *username, const char *password, char *pUserMessage);
```

4. Add `char *pUserMessage` to the definition so that it looks as follows:

```
int nsw_CheckUsernameAndPassword(const char *username, const char *password, char *pUserMessage)
{
    ...
}
```

5. Recompile the user exit:

```
make lib
```

6. Test the user exit.

Changes

System Management Hub

GUI Version

The object "GUI Terminals Module" has been renamed to "GUI Version".

The objects "High Water Marks", "Running Connections" and "Buffer Pool" are no longer available. This statistics information is now available from the Server Management.

Terminal Version

The object "Character Terminals Module" has been renamed to "Terminal Version".

The objects "High Water Marks" and "Running Connections" are no longer available. This statistics information is now available from the Server Management.

XML Version

The object "XML Version Module" has been renamed to "XML Version".

The object "Running Connections" is no longer available. This statistics information is now available from the Server Management.

Image Server

The "HTTP Server" object in the tree-view frame has been renamed. The new name is "Image Server". It is now possible to specify the number of threads per processor. It is no longer possible to specify whether this server is to be loaded automatically when the Entire Screen Builder Server starts up. See *Image Server* in Entire Screen Builder's *System Management Hub* documentation.

Traces

The property **Communication traces folder** has been removed from the server settings. This folder can now be specified in the traces setup.

The node "Communication Traces" has been removed from the "Terminal Version" object. This information is now available in the traces setup.

The traces folder can only be changed when the Entire Screen Builder Server has been stopped. However, to activate or deactivate server traces and communication traces, the Entire Screen Builder Server must have been started.

See *Traces Setup* in Entire Screen Builder's *System Management Hub* documentation.

Host Sessions

The session type Open Systems has been renamed to Natural UNIX. It applies to both, Natural UNIX sessions and Natural OpenVMS sessions.

Documentation

Documentation Set and Help File

The full documentation set in HTML format, including PDF, is now installed with Entire Screen Builder. You can access it from the Windows Start menu: **Programs > Software AG Entire Screen Builder *n.n.n* > Online Documentation**. With previous versions, the help file with the extension *chm* was invoked with this command.

The help file with the extension *chm* is still available for context-sensitive help (**Help** button in a dialog box) or when you choose **Online Documentation** from the **Help** menu. PDF books are no longer provided with the help file.

Interaction of Basic Rules and Extended Rules

Documentation has been added on how basic rules interact with extended rules. See *Using Basic Rules Together with Extended Rules* in the documentation *Defining the Rules Using the SDK*.

A new section has been added to the tutorial. It describes how to use the basic rule Item in a dialog that has been created using a resource editor and for which extended rules have been defined. See *Defining a Dialog Title Using a Basic Rule* in the *First Steps* documentation.

Translation Tables

The documentation for the translation tables has been revised. See *National Properties* in the *Host Sessions* section of Entire Screen Builder's *System Management Hub* documentation.

Removed Features

The following features have been removed:

Java Viewer

As of this version, the Java Viewer is no longer supported.

NetWare for SAA

As of this version, the session type NetWare for SAA is no longer be supported.

Files for Sun-Netscape iPlanet Web Server Support

As of this version, the files for the Sun-Netscape iPlanet Web Server support are no longer available on the Entire Screen Builder CD. They are only available on request.

Notice of Future Changes

The following changes are planned for future versions of Entire Screen Builder:

Tunneling with Sun-Netscape iPlanet Web Server

Entire Screen Builder Version 5.2.1 is the last version to support tunneling with the Sun-Netscape iPlanet Web Server. This HTTP server will no longer be supported in future versions.

Con-nect GUI

Entire Screen Builder Version 5.2.1 is the last version to deliver Con-nect GUI. In future versions, it will no longer be available on the Entire Screen Builder CD.

Con-nect GUI

In addition to the mainframe Con-nect, Software AG offers a more user-friendly graphical user interface, Con-nect GUI Version 1.1.3. This GUI has been created using Entire Screen Builder.

To run Con-nect GUI 1.1.3, Con-nect Version 3.3.3 or 3.3.2 must have been installed on the mainframe. See the file *Readme.txt* in the *Windows\ConnectGUI* folder of the Entire Screen Builder CD for further information. Currently, only Con-nect's end-user application is available with Con-nect GUI.

Con-nect GUI provides an English, German, French and Spanish user interface.